

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20080284043").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/18 10:40
S2	56	(Hagen, Robert-Christian).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 10:40
S3	144	(Pohl, Jens).in. NOT S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 10:41
S4	11	("20010054758"   "20010054770"   "20030038374"   "20030047798"   "20040124539"   "20040145039"   "20050046006"   "6828665"   "6861288"   "7049692"   "7102892").PN. OR ("7456495"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 10:58
S5	114	("20020088355"   "20030122240"   "20030137808"   "20030168725"   "20030201526"   "20040094751"   "3239719"   "3665256"   "3737986"   "3777221"   "4038488"   "4245877"   "4288841"   "4322778"   "4398235"   "4437235"   "4549200"   "4616655"   "4632293"   "4763188"   "4802062"   "4982265"   "4998886"   "5061990"   "5107586"   "5128831"   "5130894"   "5191404"   "5191405"   "5239198"   "5239447"   "5241456"   "5259767"   "5262594"   "5285352"   "5299094"   "5311401"   "5311407"   "5313366"   "5316787"   "5377077"   "5394300"   "5400904"   "5412538"   "5418688"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 10:59

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S6	30	("5291061"   "6278613"   "6340846"   "6441483"   "6472758"   "6492726"   "6563205"   "6577013"   "6603072"   "6730543").PN. OR ("6861288").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 11:15
S7	7	US-6313522-\$.DID. OR US- 6437433-\$.DID. OR US- 6407448-\$.DID. OR US- 20010028104-\$.DID. OR US- 20020163077-\$.DID. OR US- 20030020154-\$.DID. OR US- 20030030143-\$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 11:57

S8	28	("5045921"   "5477611"   "5625221"   "5776796"   "5783870"   "5793118"   "5930598"   "5933709"   "5950072"   "5977640"   "5994166"   "6020633"   "6020637"   "6025258"   "6028365"   "6051890"   "6054337"   "6072233"   "6093584"   "6117705"   "6172423"   "6180881"   "6313522").PN. OR ("6407448"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 12:00
S10	89	(257/E23.041).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/18 12:45
S19	288	(257/E23.049).ccls. NOT S10	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 13:31
S20	294	(257/E23.042).ccls. NOT S10 NOT S19	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:07
S21	406	(257/E23.047).ccls. NOT S10 NOT S19 NOT S20	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:20
S22	509	(257/E23.187).ccls. NOT S10 NOT S19 NOT S20 NOT S21	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:20
S23	708	(257/E23.055).ccls. NOT S10 NOT S19 NOT S20 NOT S21 NOT S22	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:21
S24	834	(257/E23.043).ccls. NOT S10 NOT S19 NOT S20 NOT S21 NOT S22 NOT S23	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:21
S25	1046	(257/E23.01).ccls. NOT S10 NOT S19 NOT S20 NOT S21 NOT S22 NOT S23 NOT S24	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:21
S26	1298	(257/E23.065).ccls. NOT S10 NOT S19 NOT S20 NOT S21 NOT S22 NOT S23 NOT S24 NOT S25	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:22
S28	952	(257/E25.013).ccls. AND (deformable or flexible) NOT S10 NOT S19 NOT S20 NOT S21 NOT S22 NOT S23 NOT S24 NOT S25 NOT S26	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/18 14:25
S30	28	("5045921"   "5477611"   "5625221"   "5776796"   "5783870"   "5793118"   "5930598"   "5933709"   "5950072"   "5977640"   "5994166"   "6020633"   "6020637"   "6025258"   "6028365"   "6051890"   "6054337"   "6072233"   "6093584"   "6117705"   "6172423"   "6180881"   "6313522").PN. OR ("6407448"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/18 15:19

S37	178	(438/106).cls. and flexible and ball and contact pad	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 16:21
S38	5	(438/106).cls. and interconnection film	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 16:48
S39	5	(257/E25.013).cls. and interconnection film	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 16:51
S49	321	(flex-circuit or flex circuit or flexible circuit) and (ball grid array or BGA) and (stack or stackable or stacking) and plastic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 16:58
S51	114	TAB (attachment or bonding) and (flex-circuit or flex circuit or flexible circuit) and (ball grid array or BGA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 17:17
S52	352	TAB and gang bonding	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/18 17:23
S53	4	("2003/0042591").URPN.	USPAT	ADJ	ON	2009/03/19 10:29
S54	172	(GOLLER).in.	USPAT	ADJ	ON	2009/03/19 10:30
S55	13	("20040014317"   "5496775"   "5834340"   "5892288"   "5892299"   "5923954"   "5977641"   "5989982"   "5990546"   "6031284"   "6054772"   "6476503"   "6607970").FN. OR ("7276783").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/19 10:33
S58	155	(GOLLER).in. and (semiconductor or chip or substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 10:40

S59	10	(CHUN, DONG SEOK).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 10:51
S62	55	(OFNER, GERALD).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 10:54
S64	95	rewiring near2 board	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 10:34
S67	1192	printed circuit board same plastic with resin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 11:20
S68	685	(printed circuit board or PCB) with plastic with resin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 11:20
S70	1	("20040232543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/23 11:30
S71	4	((("6300679") or ("7193310") or ("7081373") or ("20040099940")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/23 14:18
S72	412	("20010001085"   "20010006252"   "20010013423"   "20010015487"   "20010026009"   "20010028588"   "20010035572"   "20010040793"   "20010052637"   "20020001216"   "20020006032"   "20020030995"   "20020048849"   "20020076919"   "20020094603"   "20020101261"   "20020139577"   "20020164838"   "20020180022"   "20020185731"   "20020196612"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/23 14:22

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S73	94	("3427715"   "4922059"   "5148265"   "5148266"   "5229916"   "5394303").PN. OR ("5805422").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/23 14:36
S74	3	flip chip and supporting plate and flexible film	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/25 09:33
S75	94	flip chip and supporting plate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/25 09:36
S76	1	("20030111736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/25 09:44

S79	31	flexible substrate same (supporting plate or stiffener) and BGA and (@AD< "20050223" or @RLAD< "20050223")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/25 09:58
S80	129	flexible substrate same (supporting plate or stiffener) and (@AD< "20050223" or @RLAD< "20050223") NOT S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/25 10:24
S81	1	("5,877,043").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/25 10:31
S82	1	("20030134450").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/25 12:35
S84	115	(flex or flexible) with attached with (supporting plate or stiffener)and (@AD< "20050223" or @RLAD< "20050223") and BGA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/25 14:26
S85	1	("20020180061").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/25 14:56
S86	10	("20020089066"   "20020121705"   "5438224"   "5904497"   "6340846"   "6437449"   "6441483"   "6577013"   "6603072").PN. OR ("7309913").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 17:04
S87	152	("3388301"   "3577037"   "4700276"   "4700473"   "4792532"   "4819041"   "4862322"   "5198963"   "5331235").PN. OR ("5438224").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 17:06
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"5241456"	"5243133"
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"5394303"	"5397916"
"5400003"	"5402006"
"5420751"	"5428190"
"5438224"	"5446620"
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"5612570"	"5631193"

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("5763296"	"5764497"
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"6097087"	"6111757"
"6121676"	"6157541"
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"6215687"	"6218731"
"6222737"	"6222739"
"6225688"	"6232659"
"6233650"	"6234820"
"6262476"	"6262895"
"6265660"	"6265766"
"6266252"	"6281577"
"6285560"	"6288907"
"6288924"	"6300679"
"6303981"	"6310392"
"6313998"	"6316825"
"6323060"	"6329708"
"6336262"	"6343020"
"6347394"	"6349050"
"6351029"	"6360433"
"6368896"	"6370668"
"6376769"	"6392162"
"6404043"	"6410857"
"6423622"	"6426240"
"6426549"	"6426560"

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S89	9	("4437235"   "5290971"   "5438224"   "5977626"   "6014316"   "6084780"   "6487078"   "6528353").PN. OR ("7006360").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 17:23
S90	9	("5864177"   "6072243"   "6307256"   "6414391"   "6555902"   "6593662").PN. OR ("6781849").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 17:51
S91	2939	(257/E25.013).ccls. NOT (deformable or flexible) NOT (257/E23.041,E23.042,E23.047, E23.187,E23.055,E23.043, E23.01,E23.065,E23.013).CCLS.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/03 17:55

S92	17	( "20030042602"   "20030080438"   "20030224553"   "20040021211"   "20040029411"   "20060043562"   "20060195024"   "20070025079"   "20070205479"   "20080017971"   "3596228"   "5629838"   "6559531"   "6728113"   "6916719"   "6930494"   "7064566").PN. OR ("7397136").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 18:46
S93	540	(257/E25.013).ccls. NOT (deformable or flexible) NOT (257/E23.041,E23.042,E23.047, E23.187,E23.055,E23.043, E23.01,E23.065,E23.013).CCLS. and (@PD< "20010925")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/12/03 19:01
S94	45	( "4246595"   "5040052"   "5107325"   "5148265"   "5148266"   "5191404"   "5258330"   "5272664"   "5346861"   "5347159"   "5398863"   "5409865"   "5448114"   "5489749"   "5602059"   "5648682"   "5663106"   "5668405"   "5679977"   "5682061"   "5685885"   "5686757"   "5706174"   "5757078"   "5760465"   "5763939"   "5776796"   "5777387"   "5777391"   "5789820"   "5801446"   "5834339"   "5863970"   "5895965"   "5990545"   "6078097"   "6107678"   "6114192").PN. OR ("6670215").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 19:20
S95	138	( "4721995"   "4783594"   "5072283"   "5220198"   "5285107"   "5332921"   "5347159"   "5363275"   "5382829"   "5397916"   "5408172"   "5448511"   "5534727"   "5567657"   "5646446"   "5659198"   "5661086"   "5684677"   "5708297"   "5763939"   "5767570"   "5776797"   "5789815"   "5805422"   "5831627"   "5886876"   "5925930"   "5980270"   "6002168"   "6002590"   "6014316").PN. OR ("6300679"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/03 19:25

S96	27	("2261015"   "3382564"   "3576969"   "3650454"   "3699640"   "3700156"   "3731867"   "3883945"   "3990863"   "4295596"   "4528746").PN. OR ("4835847").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 12:28
S97	1869	BGA and matrix and printed circuit	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:17
S98	22	BGA and matrix and printed circuit and rewiring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:18
S99	28	BGA and printed circuit and rewiring NOT S98 and (@AD< "20040302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:20
S100	26	ball and printed circuit and rewiring and flip chip NOT S98 NOT S99 and (@AD< "20040302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:30
S101	44	ball and rewiring and flip chip NOT S98 NOT S99 NOT S100 and (@AD< "20040302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:38
S102	0	DE "102" "50" "541.1"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:48
S103	0	DE "10250541.1"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:48
S104	0	"DE10250541.1"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:48
S105	0	"DE10250541"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:48
S106	1	"20060088954"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:48
S107	1	"20060088954"	DERWENT	ADJ	ON	2009/12/04 13:52
S108	0	ball and lower rewiring and upper rewiring and flip chip NOT S98 NOT S99 NOT S100 and (@AD< "20030302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:54
S109	0	ball and lower rewiring and upper rewiring and (@AD< "20030302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:54
S110	0	lower rewiring and upper rewiring and (@AD< "20030302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:54
S111	16	lower with rewiring and upper with rewiring and (@AD< "20030302")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:54
S112	214	(Bauer, Michael)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 13:55
S113	1	US-20020085364-\$.DID.	US-PGPUB; USPAT; USOCR; JPO	ADJ	ON	2009/12/04 14:07



SI14	2	US-6157080-\$ DID. OR US-20040130024-\$ DID	US-PGPUB; USPAT; USOCR; JPO	ADJ	ON	2009/12/04 14:09
SI15	98	("5008733"   "5210938"   "5385869"   "5640052"   "5697148"   "5844320"   "5889326").PN. OR ("6157080"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 14:13
SI16	5	("6157080"   "6353263"   "6777796"   "6781221").PN. OR ("7125745").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 14:15
SI17	5	("6157080"   "6353263"   "6777796"   "6781221").PN. OR ("7125745").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 14:29
SI18	4	TAB thermal compression	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 14:55
SI19	60	TAB with thermal compression	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 14:55
SI20	1	("6255723").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:06
SI21	1	("5,489,749").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:08
SI22	20	("5001546"   "5384204"   "5489749"   "5491302"   "5518964"   "5540378"   "5629239"   "5684329"   "5801436"   "5821609"   "5830782"   "5859472"   "5880520"   "5914532"   "5958607"   "5994222"   "5994767"   "6034422").PN. OR ("6255723").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 15:08
SI23	1	("6329607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:11
SI24	1	interconnection film with conductor tracks	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:13
SI25	43	interconnection film with ((conductor tracks) or wiring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:13
SI26	1	("5453913").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:16

SI27	59	interconnection film with (multi layered or multilayer or multilayered or multi layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:18
SI28	1	flexible with interconnection film with (multi layered or multilayer or multilayered or multi layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:19
SI29	4138	flexible with film with (multi layered or multilayer or multilayered or multi layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:20
SI30	496	flexible with film with (multi layered or multilayer or multilayered or multi layer) and stacked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:20
SI31	55	TAB tape with (multi layered or multilayer or multilayered or multi layer) and stacked	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:20
SI32	212	TAB tape near3 (multi layered or multilayer or multilayered or multi layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:21
SI33	1	("6423571").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:27
SI34	47	TAB tape near3 ((three or "3") (layer or layered))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:33
SI35	2	TAB tape near3 ((four or "4") (layer or layered))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:35

S136	0	TAB tape near3 (first metal with second metal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:37
S137	5	TAB tape with (first metal with second metal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:37
S138	37	TAB tape with (ground plane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:43
S139	4	TAB tape with (impedance matched)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:44
S140	19	"5681777"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 15:45
S141	1	("4842662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 15:55
S142	3112	bump with underfill	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 17:56
S143	18	bump with underfill with plastic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 17:56
S144	103	bump and underfill with plastic and (@AD<"20040302")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/12/04 18:00
S145	1	("6667191").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/04 18:02

S146	16	("20030150595"   "5330701"   "5523049"   "5656370"   "5726079"   "6069023"   "6392290"   "6429530"   "6441475"   "6489557"   "6498387"   "6518089"   "6570259"   "6583513"   "6800948").PN. OR ("7224048"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/04 18:08
S147	2370	((361/790,803).cds. or (438/109).cds.) NOT (257/ E23.041,E23.042,E23.047, E23.187,E23.055,E23.043, E23.01,E23.065,E23.013, E25.013).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/12/04 20:48
S148	2041	(257/686,723).cds. NOT S147 NOT (257/E23.041,E23.042, E23.047,E23.187,E23.055, E23.043,E23.01,E23.065, E23.013,E25.013).OCLS. and (@PY<"2004")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/12/04 20:51
S149	1717	(257/686,723).cds. NOT S147 NOT S148 NOT (257/E23.041, E23.042,E23.047,E23.187, E23.055,E23.043,E23.01, E23.065,E23.013,E25.013). OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/12/04 20:52

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